

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: July 10, 1996
Date Received: June 27, 1996
Project: Metro Self Monitor, PO #M53790
Date Samples Extracted: July 2, 1996
Date Extracts Analyzed: July 8, 1996

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, AND ZINC
USING METHOD 6010**

**Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)**

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M53790	0.28	0.35	0.29	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
 FOR TOTAL METALS BY
 INDUCTIVELY COUPLED PLASMA (ICP)
 (METHOD 6010)**

Laboratory Code: 70285 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.28	0.29	4	0-20
Copper	mg/L (ppm)	0.35	0.36	3	0-20
Nickel	mg/L (ppm)	0.29	0.30	3	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 70285 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	5	0.28	95	80-120
Copper	mg/L (ppm)	5	0.35	91	80-120
Nickel	mg/L (ppm)	10	0.29	93	80-120
Zinc	mg/L (ppm)	5	<0.05	94	80-120

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	102	100	80-120	2
Copper	mg/L (ppm)	5	99	101	80-120	2
Nickel	mg/L (ppm)	10	102	100	80-120	2
Zinc	mg/L (ppm)	5	102	102	80-120	0

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D
Beth M. Albertson, M.S.
Bradley T. Benson
Kelley D. Wilt

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044

July 10, 1996

INVOICE # 96ACU0710-1
DUPLICATE COPY

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M53790: Results of testing requested by
Gerry Thompson, Project Manager for material submitted on June 27, 1996.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

KNJ A
6-27-96
11:00

Send Report To:

Contact GERALD THOMPSON

City, State, Zip Seattle, WA 98134

Phone # (206) 382-8375 Fax (206) 382-7335

Date _____

PROJECT NAME

PURCHASE ORDER #

7238

METRO SELF MONITOR

m 53790


SAMPLERS (signature)

PROJECT LOCATION

REMARKS

SAMPLE DISPOSAL INFORMATION

☐ Dispose after 30 days
☒ Return Samples
☐ Call for Instructions

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	GERARD A. Thompson	ACW	6/27/84	10:4
Received by: John P. Wright	John P. Wright	F+B Inc	6-27-96	10:4
Relinquished by:				
Received by:				

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July 10, 1996

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on June 27, 1996 from your Metro Self Monitor, PO #M53790 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

keh
Enclosures
ACU0710R.DOC